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**Bibliography**

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**Summary**

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**(57) [Abstract]**

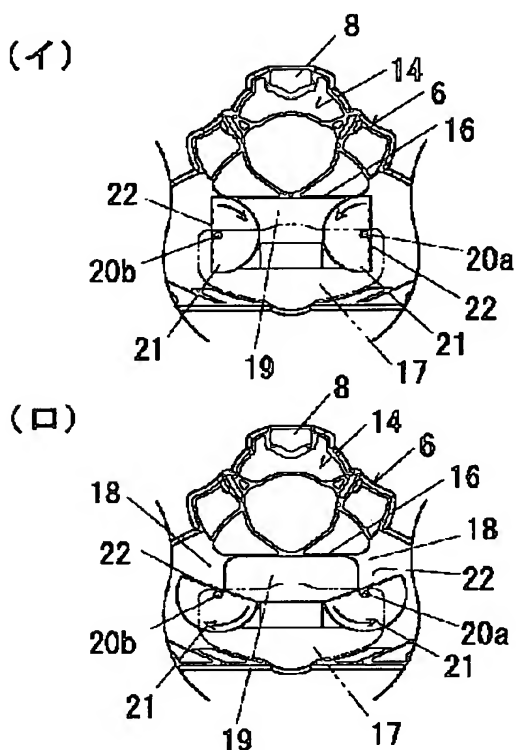
[Technical problem] It is in the winning-a-prize equipment of a pachinko game machine, and the winning-a-prize mouth breaker style which performs switching action with the dynamic opening-and-closing member which opens and closes a winning-a-prize mouth is offered.

[Means for Solution] the opening and closing which open and close the winning-a-prize mouth 19 -- while forming members 21 and 21 possible [ a perpendicular rotation drive ] through the rotation driving means 23 and 23 this opening and closing -- the slideways 22 and 22 which carry out an abbreviation rectangular cross with the hand of cut at members 21 and 21 -- forming -- this opening and closing - - on the other hand, \*\* was made to rotate members 21 and 21 by the aforementioned rotation driving means 23 and 23, and it constituted so that conversion control might be carried out in the open position by which slideways 22 and 22 carry out declination to the winning-a-prize field 15 side, and show a game

sphere to the winning-a-prize field 15, and the closing position where slideways 22 and 22 cover the winning-a-prize mouth 19 thereby -- opening and closing -- since members 21 and 21 carry out perpendicular rotation of the time of an open drive and a closing drive in the same direction -- opening and closing -- operation of members 21 and 21 will become dynamic and big

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## CLAIMS

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[Claim(s)]

[Claim 1] Winning-a-prize equipment which was equipped with the opening-and-closing member which opens and closes a winning-a-prize mouth, and equipped the interior of this winning-a-prize mouth with the winning-a-prize field The pattern display which indicates two or more patterns by change While being the winning-a-prize mouth breaker style of the winning-a-prize equipment in the pachinko game machine equipped with the above and preparing the aforementioned opening-and-closing member possible [ a perpendicular rotation drive ] through rotation driving means The open position which the slideway which carries out an abbreviation rectangular cross with the hand of cut is formed, \*\* is made to rotate this opening-and-closing member by the aforementioned rotation driving means on the other hand, and a slideway carries out declination to a winning-a-prize field side, and shows this opening-and-closing member to a game sphere to a winning-a-prize field, A slideway is characterized by carrying out conversion control in the closing position which covers a winning-a-prize mouth.

[Claim 2] The winning-a-prize mouth breaker style of the winning-a-prize equipment in the pachinko game machine indicated to the claim 1 characterized by rotation driving means being the electric motors which can control the rotation of a stepping motor, a servo motor, etc.

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## DETAILED DESCRIPTION

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[Detailed Description of the Invention]

[0001]

[The technical field to which invention belongs] this invention relates to the pachinko game machine equipped with the winning-a-prize mouth breaker style of winning-a-prize equipment which performs dynamic switching action.

[0002]

[Description of the Prior Art] If a game sphere passes through a pattern starting field, the pattern display equipped with the pattern display which indicates two or more patterns by change will drive. After fluctuating each pattern of a pattern display, make it stop one by one, give a definite indication, and when the combination of the definite pattern is a predetermined hit pattern mode The pachinko game machine it was made to produce the operation which brings a game person gain is known as the 1st sort pachinko game machine or a 3rd sort pachinko game machine. When a definite indication of the predetermined hit pattern mode is given at pattern display, the 1st sort pachinko game machine here Winning-a-prize equipment performs an open operation directly specially as great success. moreover, the 3rd sort pachinko game machine When a definite indication of the predetermined hit pattern mode is given at pattern display, open control of the electric accessory which equipped the interior with the operating space specially is carried out, and winning-a-prize equipment performs an open operation specially as great success a condition [ sphere passage of this special operating space ].

[0003] The winning-a-prize equipment of this kind of pachinko game machine is equipped with the opening-and-closing member which opens and closes a winning-a-prize mouth at the time of great success, and the sphere detection switch for the interior of this winning-a-prize mouth carrying out counting of the number of winning-a-prize spheres which flowed from the winning-a-prize mouth in this winning-a-prize field by being a winning-a-prize field is arranged. and -- if great success generates -- opening and closing -- if predetermined-time opening of the winning-a-prize mouth is carried out through the open drive of a member, the game sphere which flows in a winning-a-prize field from a winning-a-prize mouth in the meantime is detected with a sphere detection switch and the number of winning-a-prize spheres reaches to the predetermined number -- opening and closing -- the opening-and-closing round by which a winning-a-prize mouth is closed through the synzesis drive of a member is repeated the number of predetermined times

[0004]

[Problem(s) to be Solved by the Invention] By the way, the conventional opening-and-closing member for being in the above-mentioned winning-a-prize equipment, and opening and closing a winning-a-prize mouth It consists of a cover plate of the shape of an oblong rectangle prepared in the cross direction possible [ \*\*\*\* ] by using the soffit section as the rotation supporting point, at the time of an open drive, a cover plate concentrates ahead, and a winning-a-prize mouth is opened wide, and at the time of a synzesis drive, the upper-limit section rotates back from a devotion state, and it will be in a standing-up state, and returns to the original position, and a winning-a-prize mouth is closed. That is, it is during execution of an open operation specially as great success, and the conventional opening-and-closing member is only carrying out both-way movement of open position and the synzesis position by the \*\*\*\* operation. for this reason, opening and closing -- operation of a member

was small and the trouble of being scarce was in visual appeal nature

[0005] this invention aims at offering the winning-a-prize mouth breaker style of winning-a-prize equipment which can perform switching action with a dynamic opening-and-closing member.

[0006]

[Means for Solving the Problem] The winning-a-prize equipment which this invention was equipped with the opening-and-closing member which opens and closes a winning-a-prize mouth, and equipped the interior of this winning-a-prize mouth with the winning-a-prize field, It comes to have the pattern display equipped with the pattern display which indicates two or more patterns by change, and the pattern starting field which fluctuates the pattern of the aforementioned pattern display by passage of a game sphere. When the halt pattern after change displayed on pattern display by making sphere passage of this pattern starting field into a starting opportunity is a predetermined hit pattern mode, sufficiency of direct or predetermined conditions is minded. In the pachinko game machine with which the aforementioned winning-a-prize equipment performs an open operation specially as great success, and opening-and-closing control of the opening-and-closing member is carried out, while preparing the aforementioned opening-and-closing member possible [ a perpendicular rotation drive ] through rotation driving means The open position which the slideway which carries out an abbreviation rectangular cross with the hand of cut is formed, \*\* is made to rotate this opening-and-closing member by the aforementioned rotation driving means on the other hand, and a slideway carries out declination to a winning-a-prize field side, and shows this opening-and-closing member to a game sphere to a winning-a-prize field, A slideway is the winning-a-prize mouth breaker style of the winning-a-prize equipment in the pachinko game machine characterized by carrying out conversion control in the closing position which covers a winning-a-prize mouth.

[0007] both-way movement according to the conventional \*\*\*\*\* operation if it is in this composition and winning-a-prize equipment performs an open operation specially as great success, in order that an opening-and-closing member may carry out perpendicular rotation of the time of the open drive and a synizesis drive in the same direction -- comparing -- opening and closing -- it becomes with a thing dynamic [ operation of a member ], and big Thereby, a game person's eyes are pulled, and if it puts that the opening-and-closing member is operating in another way, it is strongly appealable visually that the advantageous state for a game person has occurred.

[0008] moreover, the above-mentioned composition -- it is -- opening and closing -- the composition which uses the rotation driving means of a member as the electric motor which can control the rotation of a stepping motor, a servo motor, etc. may be proposed since structure becomes easy since the rotation drive of this opening-and-closing member can be carried out here by supporting an opening-and-closing member to revolve to the axis of rotation of this electrical motor, and a rotation and

a halt position can be controlled by high precision — opening and closing — the roll control of the predetermined angle by which the member was stabilized becomes possible

[0009]

[Embodiments of the Invention] One example of this invention is explained based on a drawing. Drawing 1 is the front view of the game board 2 of the pachinko game machine 1 constituted as a 1st sort pachinko game machine, and the pattern display 4 is specially formed in the pin center, large case 3 arranged in the center of the face of a board of this game board 2. This special pattern display 4 can be equipped with the pattern display 5 which consists of a liquid crystal display, a CRT display machine, a dot-matrix drop, etc., and can indicate now by change the three patterns A, B, and C which become this pattern display 5 from a number, a pictorial map, etc., respectively.

[0010] Under the pin center, large case 3, winning-a-prize equipment 6 is arranged and the pattern starting field 8 is specially established in the up position of the winning-a-prize mouth case 7 which constitutes this winning-a-prize equipment 6. This special pattern starting field 8 equips internal sphere passage with the pattern starting switch S1 (refer to drawing 5 ) specially, and is this special pattern starting switch S1. The pattern displayed on the pattern display 5 of the aforementioned special pattern display 4 with the sphere detection to depend is changed. Moreover, the special pattern starting storage numeral equipment 9 which consists of four pilot lamps is formed in the lower both sides of the aforementioned special pattern display 4. It is, when a game sphere passes through the pattern starting field 8 continuously specially, and this special pattern starting storage numeral equipment 9 is the pattern starting switch S1 specially. When the sphere detection signal of a shell is memorized by the special starting storage of the storage RAM shown by drawing 5 constituted by the field in part, the number of storage is displayed.

[0011] The common pattern starting storage numeral [ which the pattern display 10 is usually formed and becomes this common pattern display 10 bottom from four pilot lamps further ] equipment 11 constituted by three Light Emitting Diodes is specially formed in the upper part of the pattern display 4. on the other hand, the right-and-left both-sides position of the pin center, large case 3 was equipped with opening-and-closing \*\*\*\*\* 13 and 13 which usually possesses the pattern starting switch S2 (refer to drawing 5 ) and which is wide opened by the reverse HA typeface in the up position of the winning-a-prize mouth case 7 by usually forming the pattern starting fields 12 and 12 in the directly under position of the aforementioned special pattern starting field 8 — the electric accessory 14 is usually formed And when a game sphere usually passes through the pattern starting fields 12 and 12, it is usually the pattern starting switch S2. When the shell sphere detection signal was sent out, it changes while the pattern display 10 displayed the state where which Light Emitting Diode lit up at least and the lighting state after the halt usually becomes a predetermined hit mode, opening-and-closing \*\*\*\*\* 13 and

13 of the electric accessory 14 is usually opened wide a predetermined time (about 0.5 second). If right above functions as the pattern starting field 8 similarly specially and a game sphere flows, while supply of a premium sphere will be performed, the pattern display 4 drives specially and, as for this common electric accessory 14, the pattern of the pattern display 5 is changed.

[0012] Moreover, when a game sphere usually flows into the pattern starting fields 12 and 12 continuously, it is usually the pattern starting switch S2. While the number of sphere detection to depend is memorized by the common starting storage of the storage RAM shown by drawing 5 constituted by the field in part, based on the number of storage, usually, the pilot lamp of pattern starting storage numeral equipment 11 lights up one by one, and is suspended a maximum of 4 times. The pilot lamp of this display 11 is switched off one by one, whenever the pattern display 10 usually carries out a change start based on the number of storage of starting storage.

[0013] In addition, as pattern display 10, it is constituted by a liquid crystal display and single or multiple 7 segment indicator in addition to what is constituted by three Light Emitting Diodes, and according to the content of a display, it hits and a blank may usually be determined.

[0014] Next, the winning-a-prize mouth breaker style of the winning-a-prize equipment 6 which is the important section of this invention is explained about drawing 2 - drawing 4 . The winning-a-prize mouth 19 which the upper part and the front lower part were covered by the ceiling wall section 16 and the front-wall section 17 which project ahead at the anterior part of this winning-a-prize field 15 by the winning-a-prize mouth case 7 of winning-a-prize equipment 6 equipping with the deep winning-a-prize field 15 the back by which opening was carried out to the abbreviation mid gear at the shape of a rectangle, and equipped right-and-left both sides with the open sections 18 and 18 is formed. the opening and closing which present the shape of a semicircle to the open sections 18 and 18 of the winning-a-prize mouth 19 -- members 21 and 21 arrange possible [ perpendicular rotation ], respectively -- having -- \*\*\*\* -- this opening and closing -- the flat slideways 22 and 22 which carry out an abbreviation rectangular cross with the hand of cut are formed in members 21 and 21 this opening and closing -- on the other hand, a rotation drive is carried out by the rotation driving means 23 and 23 mentioned later at \*\*, and as shown in drawing 2 RO and drawing 3 RO, conversion control of the members 21 and 21 is carried out in the open position by which slideways 22 and 22 carry out declination and show the winning-a-prize field 15 side to a game sphere to the winning-a-prize field 15, and the synzesis position where slideways 22 and 22 cover the winning-a-prize mouth 19 as shown in drawing 2 I and drawing 3 I

[0015] the electric motors 24a and 24b which can control the rotation of a stepping motor, a servo motor, etc. are used for the aforementioned rotation driving means 23 and 23, and it is shown in drawing 4 I and RO -- as -- the axes of rotation 20a and 20b of these electrical motors 24a and 24b -- opening and closing -- members



21 and 21 are supported to revolve, respectively opening and closing of the right-hand side which the rotation drive of these electrical motors 24a and 24b is carried out in the direction which is mutually different, and is supported to revolve by axis-of-rotation 20 of electrical-motor 24a a -- opening and closing of the left-hand side which carries out perpendicular rotation of the member 21 counterclockwise, and is supported to revolve by axis-of-rotation 20 of electrical-motor 24b b -- perpendicular rotation of the member 21 is carried out clockwise and the thing for which the rotation of electrical motors 24a and 24b is controlled by the game control unit 32 mentioned later -- the time of an open drive -- opening and closing -- the open state which is made to rotate 110 degrees of members 21 and 21 from a synizesis position, and is shown in drawing 2 RO and drawing 3 RO -- carrying out -- the time of a synizesis drive -- the opening and closing from open position -- it is made it considering as the synizesis state which is made to rotate 250 more degrees of members 21 and 21,

[0016] Moreover, in the winning-a-prize field 15 of the winning-a-prize mouth 19, accessory continuation operation switch S4 (refer to drawing 5 ) detect the sphere passage of the specific winning-a-prize field of 10 count switch S3 (refer to drawing 5 ) for carrying out counting of the number of winning-a-prize spheres which is mentioned later, and which flowed from the winning-a-prize mouth 19 during the open operation specially as great success, and the winning-a-prize field 15 by which partition formation was carried out to the field is prepared in part. Here, it is accessory continuation operation switch S4. The function as a count switch for carrying out counting is also equipped with the number of game spheres which passed through the specific winning-a-prize field during great success, sphere passage of a specific winning-a-prize field is detected, and the opening-and-closing round which makes the number of times of predetermined an upper limit is made to continue. Moreover, accessory continuation operation switch S4 The winning-a-prize sphere detected is 10 count switch S3 by which counting is carried out into one opening-and-closing round. It is added together by the number of winning-a-prize spheres to depend.

[0017] The operation control means of the pattern display 4 and winning-a-prize equipment 6 are specially constituted by the game control unit 32 (microcomputer system) which consists of an above-mentioned central control unit CPU shown by drawing 5 . This central control unit CPU performs operation control in a predetermined procedure, and Storage ROM and the storage RAM which can write required data at any time are connected. Fixed data, such as a pattern change display program of the pattern display 4 and a voice generating pattern for usually generating the change display program of the pattern display 10, the control program of the electrical motors (winning-a-prize mouth opening motor) 24a and 24b of winning-a-prize equipment 6 to which an open operation is made to perform specially and a lamp, the display pattern of Light Emitting Diode, the sound effect from a loudspeaker, etc., are specially memorized by Storage ROM.

[0018] moreover, the special pattern starting switch S1 specially prepared in the pattern starting field 8 at the central control unit CPU, 10 count switch S3 for usually having been prepared in the pattern starting field 12 which usually carries out counting of the number of winning-a-prize spheres to the pattern starting switch S2 and winning-a-prize equipment 6, and accessory continuation operation switch S4 prepared in the specific winning-a-prize field etc. — various switches are connected through input port The sphere detection signal sent out from each of these switches shapes in waveform by the waveform shaping circuit, and is told to a central control unit CPU as input data, and the information is memorized by Storage RAM. The address bus (not shown) which, on the other hand, tells a target the information which specifies the address which write data to be memory is connected to this storage RAM, and a central control unit CPU and Storage ROM and RAM are connected to it by the data bus which exchanges data.

[0019] furthermore, the special pattern display 4 which is controlled by the central control unit CPU through an output port and which was mentioned above — usually — the pattern display 10 — usually — the open solenoid 33 of the electric accessory 14, and electrical motors (winning-a-prize mouth opening motor) 24a and 24b — specially — pattern starting storage numeral equipment 9 — and pattern starting storage numeral equipment 11 is usually connected In addition, the sound generator outputted to amplifier in response to sound data is connected to the central control unit CPU.

[0020] Next, the operation of the pachinko game machine 1 which consists of the above-mentioned composition is explained. When a game sphere passes through the pattern starting field 8 specially, it is the pattern starting switch S1 specially. A shell sphere detection signal is sent out and the pattern display 4 drives specially with the supply of a premium sphere. In addition, when a game sphere passes through the pattern starting field 8 continuously specially, it is the pattern starting switch S1 specially. The number of sphere detection to depend is memorized by the starting storage of Storage RAM, and based on the storage, specially, the pilot lamp of pattern starting storage numeral equipment 9 lights up one by one, and is suspended a maximum of 4 times. This pilot lamp is switched off whenever a pattern carries out a change start, and the number of storage decreases.

[0021] If the patterns A, B, and C which will be displayed on the pattern display 5 if the pattern display 4 drives specially as mentioned above start change according to predetermined pattern permutation and it passes more than a predetermined time (for example, about 6.5 seconds), pattern change will stop. And if the hit pattern mode A, B, and C predetermined in the halt pattern, i.e., patterns, becomes the combination of the same pattern, great success will occur and the special opening operation of winning-a-prize equipment 6 will be performed.

[0022] the opening and closing from the state shown in drawing 3 I by this special opening operation through the 110-degree rotation control drive of electrical motors 24a and 24b — as 110-degree perpendicular rotation drive of the members 21 and

21 is carried out and it is shown in drawing 3 RO, the winning-a-prize mouth 19 is opened wide, and an opening-and-closing round is started here — opening and closing — members 21 and 21 can show smoothly a game sphere to the winning-a-prize field 15, and can be made to win a prize, when slideways 22 and 22 carry out declination to the winning-a-prize field 15 side

[0023] One opening-and-closing round [ whether a predetermined released time (for example, 30 seconds) passes and ] It is 10 count switch S3 within this predetermined released time. After being continued until winning-a-prize detection of the game sphere of the predetermined number (for example, ten pieces) was made, the 250-degree rotation control drive of electrical motors 24a and 24b is minded. opening and closing — as 250 more degree perpendicular rotation drive of the members 21 and 21 is carried out in the same direction as the time of opening and it is shown in drawing 3 I, the winning-a-prize mouth 19 is covered and one round is completed

[0024] And the sphere passage of the winning-a-prize field 15 of a specific winning-a-prize field by which partition formation was carried out in part to the field is accessory continuation operation switch S4 in the above-mentioned opening-and-closing round. If detected, the conditions which progress to the next opening-and-closing round will be satisfied, and the winning-a-prize mouth 19 will be opened wide again. If this opening-and-closing round is repeated the number of times of predetermined (for example, a maximum of 16 times), the special opening operation of winning-a-prize equipment 6 will be completed.

[0025] thus — if it is in this invention and winning-a-prize equipment 6 performs an open operation specially as great success — opening and closing — both-way movement according to the conventional \*\*\*\*\* operation in order that members 21 and 21 may carry out perpendicular rotation of the time of the open drive and a synzesis drive in the same direction — comparing — opening and closing — operation of members 21 and 21 can be carried out as a dynamic and big thing

[0026] in addition — an example — opening and closing — what is limited to this although the rotation at the time of the open operation of members 21 and 21 was made into 110 degrees — it is not — this opening and closing — the open angle of members 21 and 21 should just be an angle at which slideways 22 and 22 carry out declination and can show a game sphere to the winning-a-prize field 15 to the winning-a-prize field 15 side Moreover, although the example explained the case where the winning-a-prize mouth breaker style concerning this invention was applied to the 1st sort pachinko game machine, the winning-a-prize mouth breaker style of this invention is applicable also to the 3rd sort pachinko game machine.

[0027]

[Effect of the Invention] While this invention prepares the opening-and-closing member which opens and closes a winning-a-prize mouth possible [ a perpendicular rotation drive ] through rotation driving means as mentioned above By forming in this opening-and-closing member the slideway which carries out an abbreviation

rectangular cross with the hand of cut, and on the other hand making \*\* rotate this opening-and-closing member by the aforementioned rotation driving means to it The open position by which a slideway carries out declination and shows a game sphere to a winning-a-prize field to a winning-a-prize field side, If the shell and winning-a-prize equipment which were made to carry out conversion control perform an open operation specially as great success in the synizesis position where a slideway covers a winning-a-prize mouth, in order that an opening-and-closing member may carry out perpendicular rotation of the time of the open drive and a synizesis drive in the same direction, both-way movement by the conventional \*\*\*\*\* operation -- comparing -- opening and closing -- operation of a member will become dynamic and big Thereby, a game person's eyes can be pulled and it can advertize visually that the advantageous state has occurred for a game person strongly.

[0028] moreover, opening and closing -- since structure becomes easy since an opening-and-closing member can be supported to revolve to the axis of rotation of this electrical motor by using the rotation driving means of a member as the electric motor which can control the rotation of a stepping motor, a servo motor, etc., and a rotation and a halt position can be controlled by high precision -- opening and closing -- the roll control of the predetermined angle by which the member was stabilized becomes possible

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**DESCRIPTION OF DRAWINGS**

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[Brief Description of the Drawings]

[Drawing 1] It is the front view showing the game board of the pachinko game machine equipped with the winning-a-prize mouth breaker style of the winning-a-prize equipment concerning this invention.

[Drawing 2] It is the perspective diagram of the winning-a-prize equipment which I shows the synizesis state of a winning-a-prize mouth to, and RO shows the open state of a winning-a-prize mouth, respectively.

[Drawing 3] some winning-a-prize equipments which I shows the synizesis state of a winning-a-prize mouth to, and RO shows the open state of a winning-a-prize mouth, respectively -- it is notch front view

[Drawing 4] the opening and closing whose RO I shows the synizesis state of a winning-a-prize mouth, and shows the open state of a winning-a-prize mouth, respectively -- it is the perspective diagram of the drive of a member

[Drawing 5] It is the block circuit diagram showing a game control unit (microcomputer system).

[Description of Notations]

1 Pachinko Game Machine

4 Pattern Display

5 Pattern Display

6 Winning-a-Prize Equipment

8 Pattern Starting Field

15 Winning-a-Prize Field

19 Winning-a-Prize Mouth

21 Opening and Closing -- Member

22 Slideway

23 Rotation Driving Means

24a, 24b Electrical motor

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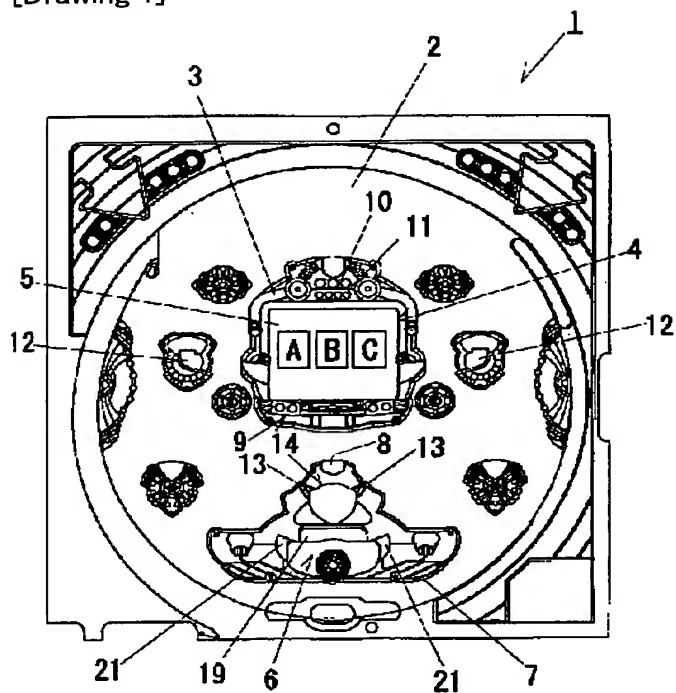
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**DRAWINGS**

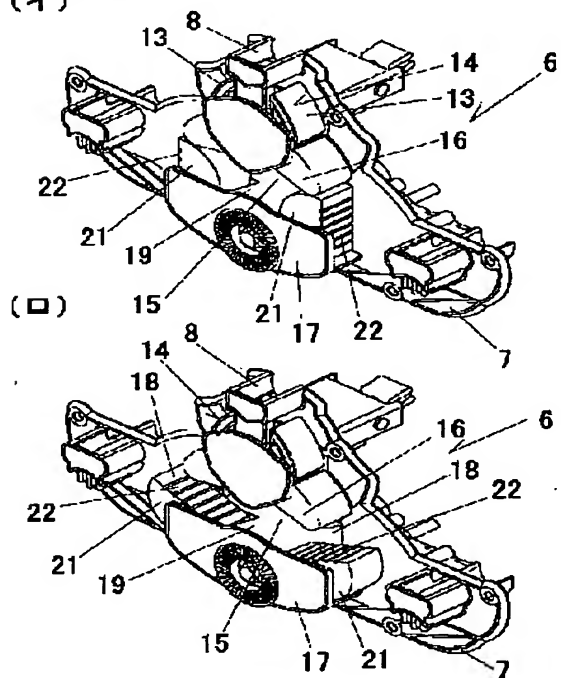
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[Drawing 1]

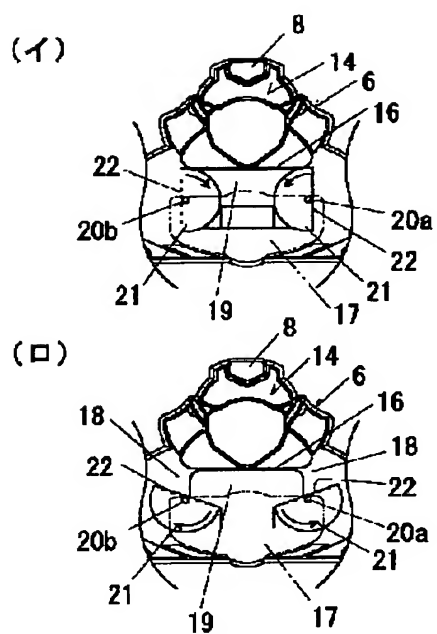


[Drawing 2]

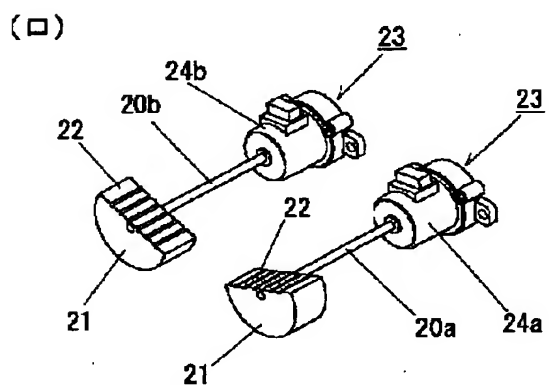
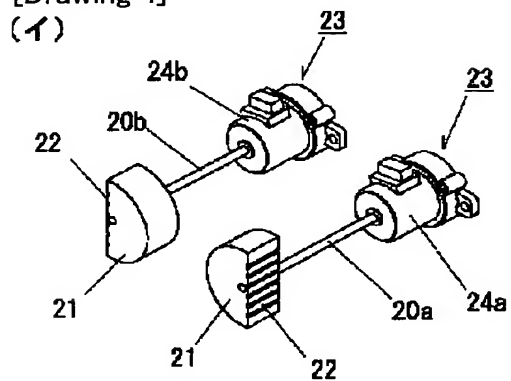
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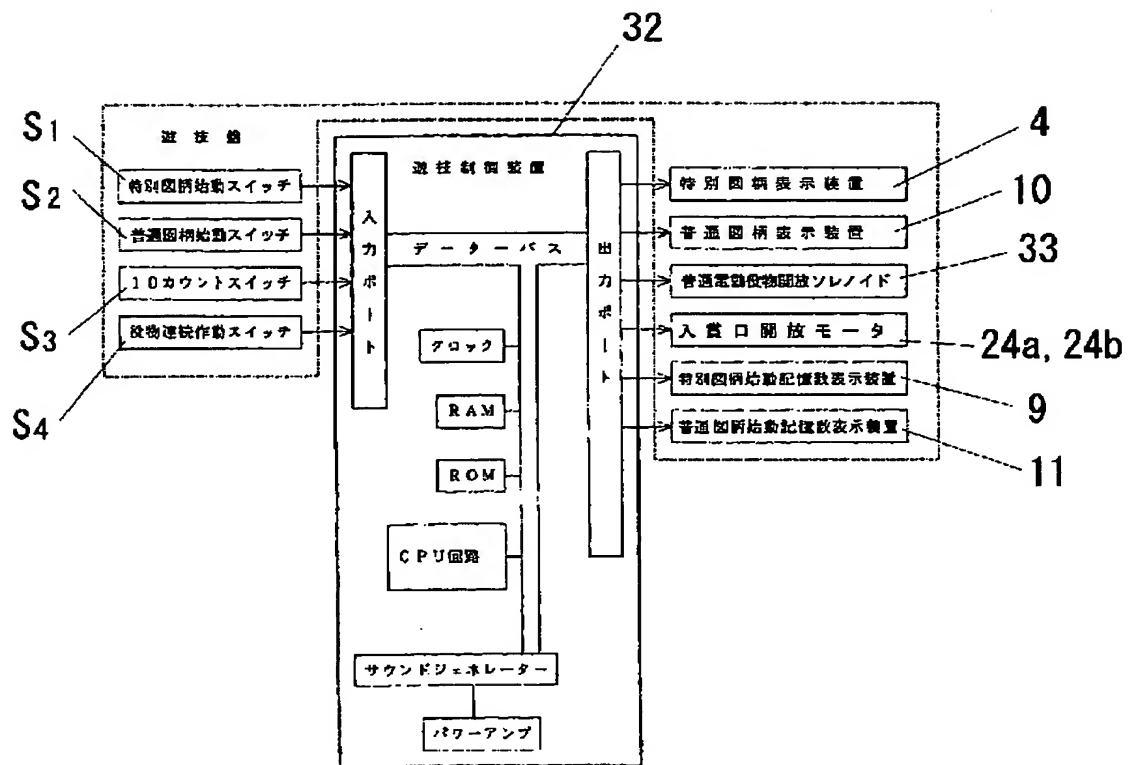
[Drawing 3]



[Drawing 4]



[Drawing 5]



[Translation done.]